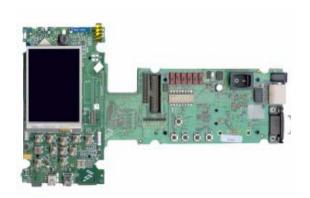
i.MX31 PDK 1.4 Windows Embedded CE 6.0/ Windows CE 5.0

Quick Start Guide





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	Version
	Ready to Begin Your Development?



About the Boards

This chapter provides detailed information about the three boards (CPU, Debug, Personality) and the locations of the connectors and switches for each.

CAUTION

Your PDK arrives housed in a plastic device enclosure, which under normal circumstances you should not remove. However, the PDK documentation set includes information for board-level components, and also explains in some documents how to assemble the boards into the enclosure. Should you need to work directly with the boards, please use great caution in handling the components:

- To remove or work with the boards, use static precautions.
- To remove or add the enclosure, first read the enclosure assembly instructions carefully and note which areas are delicate, such as the speakers.

About the 3-Stack Platform System

Freescale introduces the 3-Stack Platform System, which you use to develop multimedia and connectivity applications using the i.MX31 Applications Processor and the MC13783 Audio and Power Management device.

The 3-Stack Platform System decreases the time between first development and final product release by providing you (as the system designer) with a near-to-final product design, which you can use as a development platform for software and hardware.

There are two Board Support Packages (BSP) for the 3-Stack Platform System, with one BSP for Microsoft® Windows CETM 5.0/Windows Embedded CETM 6.0, and one BSP for Linux operating systems. These BSPs contain drivers optimized for multimedia operations using the i.MX31 and MC13783 devices.

Freescale's 3-Stack Platform System consists of three small boards: CPU, Debug, and Personality.

- A CPU board contains the i.MX31 CPU, memories, and the MC13783 Power Management IC (PMIC).
- A Debug board provides the debug interfaces (such as JTAG), and also has a CPLD that implements an external Ethernet and serial controller for debug purposes.
- The Personality board implements the functionality of the 3-Stack board, and
 contains hardware for Wi-Fi connectivity, FM receiver, and so on. The Personality
 board can be modified to meet your specific requirements without the need to modify
 the other two boards (CPU, Debug). The Personality board was designed to support

common multimedia applications, and has a 2.8-inch VGA display, image sensor camera, Wi-Fi CERTIFIED $^{\text{TM}}$ IEEE 802.11 $^{\text{TM}}$ b/g standards, FM receiver, SD Card connector, USB OTG, USB Host, 2.4 QVGA smart display panel connector, ATA connector and TV-Out connector. As the 3-Stack platform continues to evolve, more Personality boards will be created to meet new multimedia requirements. <u>Table 1.2</u> lists 3-Stack platform features in more detail.

Table 1.1 3-Stack Platform Features

	Details
All boards	Near to final product form-factor demonstration modules and working platforms. Calid reference ask meeting that decay recombles.
	 Solid reference schematics that closely resemble final products to aid customers' designs.
CPU board	i.MX31 ARM11™ Applications Processor
	MC13783 Atlas power management chip
	256 MB of NAND Flash Memory
	128 MB of 32 bit DDR SDRAM memory
	• 37.914 mm x 67.517 mm
Personality board	Peripheral components
	Interface connectors
	• 71.428 mm x 129.462 mm
Debug board	Two RS-232 interfaces
	10/100 Base-T Ethernet connector
	Current measure connectors
	• 71.400 mm x 174.900 mm
Expansion Headers	Utilizing reliable high density connector to interface between boards, 3 board assembly for software development and 2-board assembly (without debug board) for demonstration
Battery Support	+4.2 V 2400mAh Battery power supply and Battery Charging Function
LCD Display	2.8 inch TFTLCD display panel with touch panel and LED backlight
Smart LCD Connector	2.4 inch QVGA smart display panel connector
Camera Interface	Image sensor camera connector
Selectable Clock Sources	Two selectable system clock sources: 32.768 KHz and 26 Mhz

Table 1.1 3-Stack Platform Features

	Details
Debug Port	RealView®-ICE debug support
Video and Audio Stereo	Stereo microphone jack, headphone and video jack, stereo and mono (ear piece) speaker terminals
GPS Connector	One connector to outboard GPS module
FM Receiver	
TV Out	TV decoder that supports 8-bit color, NTSC and PAL formats
PC Card Expansion	SD card connectors, with card sense
Keypad	Onboard keypad and keypad connector
Network Support	Onboard Wi-Fi CERTIFIEDFter IEEE 802.11 b/g standards and Bluetooth(r) Core Specification Version 2.0 + EDR (enhanced data rate) combination module
	One Ethernet jack connector (for application/debug)
USB	One USB OTG high-speed transceiver with mini- USB connector
	One USB high-speed host transceiver, with standard USB host connector
ATA Support	ATA5 controller with
	One 44-position dual row 2 mm header for small form-factor disk drivers
	One 40-pin ZIF connector for Toshiba HDD
Accelerometer	Onboard accelerometer with sensitivity in three separate axes (X, Y, Z)
Serial Port	Two RS-232 interfaces with DB-9 connectors
	 One RS-232 interface is driven by a UART channel internal to the MX31, and it supports DCE with optional full modem controls
	The other RS-232 interface is DTE with optional full modem controls

Table 1.1 3-Stack Platform Features

	Details				
Cables	5.0V/2.4A universal power supply kit				
	RS-232 standard serial cable				
	High Speed USB cables with mini-AB connectors for OTG				
	High speed cable with standard A-to-mini-B connectors				
	Mini-USB adaptor				
	Jack to RCA audio/video cable				
	Ethernet cables (2) with RJ45-8 connectors				
Software	Sample Windows® embedded CE binary image from Freescale				
	Windows embedded CE BSP available from Freescale				
Application	ATK software				
Development Tools	Platform Builder 5.0/6.0				
	Visual Studio 2005				

CPU Board

CPU Board



Тор



Bottom

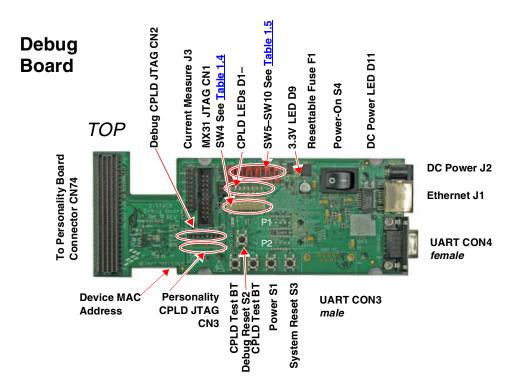
J1 Board-to-Board Connector

Figure 1.1 CPU Board

You use the J1 board-to-board connector (500 pins) to connect the CPU board to either of the other two boards:

- Connect the CPU board to a Personality board, for running demos (no Debug board is needed).
- Connect the CPU board to a Debug board, (and connect the Personality board to the Debug board) for developing software. The Personality board plugs into the other side of the Debug board.

Debug Board



Bottom



Figure 1.2 Debug Board

Table 1.2 Debug Board Physical Features

Туре	Physical Feature				
Switches	S1: Power button S2: Debug board reset button				
	S3: System reset switch				
	S4: Power-on switch				
	SW4: Enable switch				
Connectors	J1:10/100 Base-T Ethernet RJ45 connector				
	J2: 5.0V DC power connector				
	J3: Current measure connector				
	J4: 500-pin connector to CPU board				
	P1: WEIM Address measure connector				
	P2: WEIM Data measure connector				
	CN1: i.MX31 JTAG connector				
	CN2: Debug board CPLD JTAG connector				
	CN3: Personality board CPLD JTAG connector (Reserved)				
	CN74: 500-pin connector to Personality board				
	CON4: UART (DCE) DB9 female connector				
LEDs	D1–D8: LEDs for CPLD debug				
	D9: LED for Debug board 3.3V power				
	D11:LED for DC power supply				
Buttons	BT1, BT2: Test buttons for CPLD				
Fuse	F1: Resettable Fuse				

Table 1.3 Debug Board SW4 Switch

Switch	Setting	Effect		
SW4-1 UART Port Select	ON	Selects serial port UART (DCE) CON4		
SW4-8 Power Enable	ON	Power is supplied to all three boards.		
	OFF	Power is only supplied to the Debug board.		

Table 1.4 Boot Mode Setting (SW5-SW10)

Boot Mode Device	SW5	Boot4 SW6	Boot3 SW7	SW8	SW9	SW10
UART/USB bootloader	X	0	0	0	0	0
8-bit NAND Flash (2KB page) Ext	Х	1	0	0	0	0

Personality Board

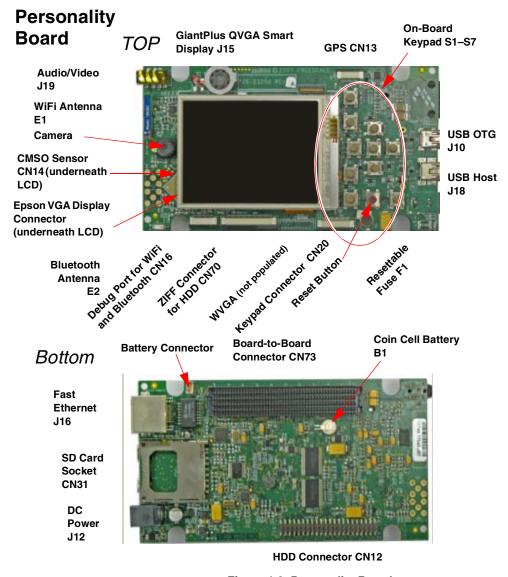


Figure 1.3 Personality Board

Table 1.5 Personality Board Physical Features

Туре	Physical Feature
Connectors	CN12: 44-position dual row, 2 mm header for HDD
	CN13: GPS module connector
	CN14: 2.0 M pixel CMOS sensor connector
	CN16: Debug port for WiFi and Bluetooth module
	CN31: SD card socket
	CN70: 40-pin ZIF connector for HDD
	 CN73: 500-pin connector to CPU Engine board (in demo configuration) or Debug board (in development configuration)
	J10: Mini-USBOTG high speed connector
	J12: 5.0 VDC power connector
	J14: Epson VGA display connector
	J15: Giantplus QVGA smart display connector
	J16: 10/100 BT Fast Ethernet Connector
	J18: Standard USB host high speed connector
	J19: Audio and video connector
Battery	B1: Coin cell battery
Buttons	S7–S17: Onboard keypad
Fuse	F1: Resetable fuse
Antennas	E1: WiFi Antenna
	E2: Bluetooth antenna

Getting Started

Unpack the Kit

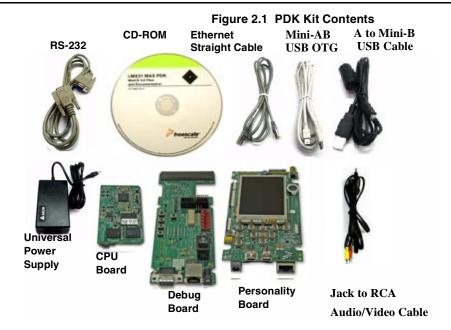
The 3-Stack Platform System is shipped with the items listed in Table 2.1.

Table 2.1 Contents

Туре	Items
Boards	CPU board
	Debug board
	Personality board
Cables	RS-232 serial cable
	Ethernet straight cable
	High-speed USB cables with mini AB connectors for OTG
	High-speed cable with standard A to mini B connectors
	Mini-USB adaptor
	Jack to RCA audio/video cable
Power Supply	5.0V/2.4A universal power supply kit
	CD-ROMs: Content CD, Platform Builder Trail CD, and Visual Studio 2005 Trial CD
	End-User License Agreement
	Quick Start Guide (this document)
	Warranty card
	Freescale Support card

Verify that all the items are contained in the package. See Figure 2.1.

Take out the three boards from their anti-static bags and check the boards for any visible damage.



CD-ROM Contents

Table 2.3. identifies the items on the CD-ROM set.

Table 2.2 Development PC Requirements

Туре	Requirement
Product	i.MX31 PDK Product Brief
Documentation	Bill of Materials, Schematics, and Gerber files for CPU Board, Personality Board, and Debug Board
	 i.MX31 Demo Image Readme for Windows CE 5.0 and Windows Embedded CE 6.0
	i.MX Platform Hardware User's Guide
	 i.MX31 PDK Quick Start Guides for Windows CE 5.0/Windows Embedded CE 6.0 (this document)
	 i.MX31 PDK Release Notes for Windows CE 5.0 and Windows Embedded CE 6.0
	 i.MX31 PDK User's Guides for Windows CE 5.0 and Windows Embedded CE 6.0
	i.MX31 PDK Reference Manuals for Windows CE 5.0 and Windows Embedded CE 6.0
	i.MX31 PDK Hello World Application Notes for Windows CE 5.0 and Windows Embedded CE 6.0
	Data sheets for the i.MX31 PDK Platform's non- Freescale components
	i.MX Platform Advanced ToolKit (ATK) User's Guide
Software	Microsoft Platform Builder, versions 5.0/6.0
Development Tools	Visual Studio 2005
	Windows CE 6.0/Windows Embedded CE 6.0 SDK installation file
	Advanced ToolKit (ATK) software

Provide a Development PC

To develop applications using the 3-Stack development kit, get a PC with the requirements listed in <u>Table 2.3</u>.

Table 2.3 Development PC Requirements

Туре	Requirement
Operating System	Windows XP Professional with Service Pack 1 or Windows 2000 Professional with Service Pack 4
Network	Internet access
Software Tools	Microsoft .NET Framework, version 1.1
PC HW	933 MHz Pentium II or later processor; 2 GHz processor recommended
	512 MB of RAM; 1 GB recommended
	1 GB of available space required on system drive
	18 GB of available hard-disk space
	DVD ROM drive
	1024x768 or higher resolution display with 256 colors

Build the Platform

This chapter explains how to connect the three types of 3-Stack boards (Debug, Personality, CPU) together, to make either a development platform (Personality board + CPU board + Debug board), or a demonstration platform (Personality board + CPU board); and how to connect the 3-Stack platform to your PC. See Figure 3.1.

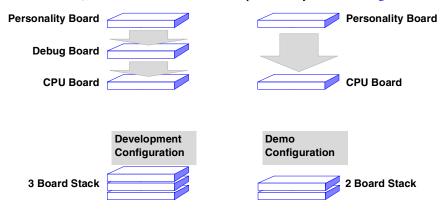


Figure 3.1 3-Stack Platform Configurations

The three 3-Stack boards in your development kit may already be assembled. If the three boards are already assembled, review the procedures in the following sections, and be sure to configure the Debug board appropriately.

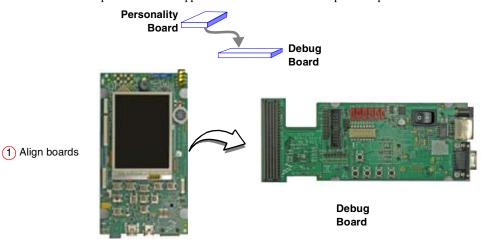
- To build a development platform, follow the procedures in <u>"Build a Development Platform: Assemble Three Boards" on page 17.</u>
- To build a demonstration platform, follow the procedures in "Build a Demo-Platform: Assemble Two Boards" on page 21.

Build a Development Platform: Assemble Three Boards

This section explains how to connect the Personality, Debug, and CPU boards.

Connect Personality Board to Debug Board

The Personality board connects to the Debug board using a 500-pin connector. The connector is keyed to avoid misconnection, so there is only one way to connect these boards. Connect the Personality board to the Debug board. The maximum allowable angle for mating and unmating boards is 10 degrees. See Figure 3.2. For additional information, see: http://samtec.com/ftppub/TESTRPT/tc076--1254reportrev3.pdf.



PersonalityBoard



Figure 3.2 Install Personality Board onto Debug Board

Connect CPU Board to Debug Board

After connecting the Personality board to the Debug board, now connect the CPU board to the underside of the Debug board.

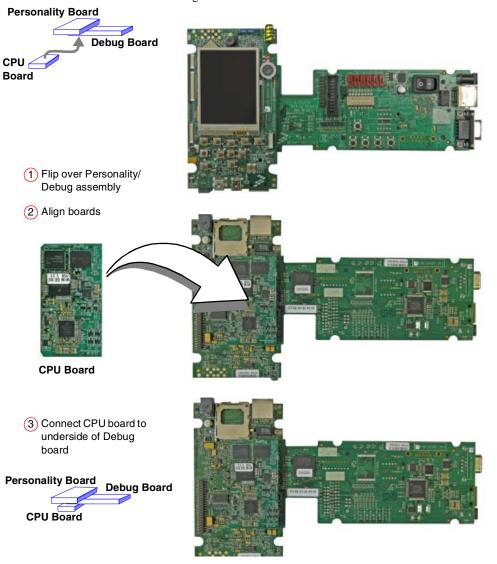


Figure 3.3 Align CPU board and Debug/Personality board

Connect Development Platform to PC; Run Preloaded Image

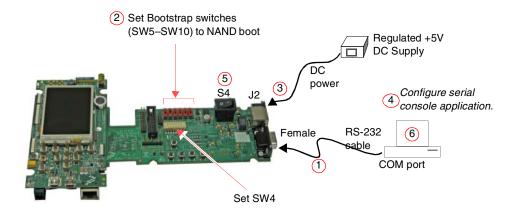


Figure 3.4 Connecting the Platform to your PC

To connect the 3-Stack platform to your host PC:

- Connect one end of an RS-232 serial cable (included in the kit) to a serial port connector (CON4) on the Debug board and connect the other end to a COM port on the host PC.
 - Configure SW4-1 to ON.
 - Make sure that SW4-8 is ON, to supply power to all three boards.
 - Configure SW4-2 to OFF.
- 2. Confirm that the Bootstrap switches (SW5–SW10) are set for NAND boot. See <u>Table</u> 3.1.

Table 3.1 Boot Mode Setting (SW5-SW10)

Boot Mode Device	SW5	SW6 (Boot4)	SW7 (Boot3)	SW8	SW9	SW10
UART/USB bootloader	Х	0	0	0	0	0
8-bit NAND Flash (2KB page) Ext	Х	1	0	0	0	0

- Connect the regulated 5V power supply to the appropriate power adapter. Plug the
 power adapter into an electrical outlet and the 5V line connector into the J2 (5V
 POWER JACK) connector on the Debug board. See Figure 3-5.
- 4. Start a serial console application on your host PC with the following configuration

Table 3.2 Serial Console Configuration

Baud Rate	115200
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

- 5. On the Debug board, switch the power switch (S4) to 1.
- 6. The OS image pre-loaded in the 3-Stack board will boot and the debug messages from the bootloader should now appear on the serial console application on your PC.

Build a Demo Platform: Assemble Two Boards

This section explains how to make a demonstration platform using the Personality and CPU boards.

To make a demonstration platform, the CPU board is directly connected to the Personality board using the 500-pin connector; the Debug board is not used.

NOTE If your system is already configured as a development platform (using all three boards), disconnect all boards from each other.

Connect CPU Board to Personality Board

Connect the CPU board to the Personality board. The connector is keyed to avoid misconnections, so that there is only one way to connect the CPU board to the Personality board.

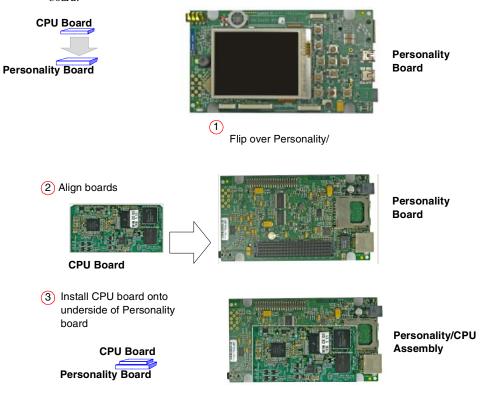
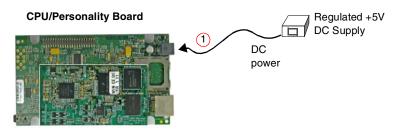


Figure 3.5 Install CPU Board onto Personality Board

Connect Power Supply; Run Preloaded Demo



J12 power jack is on the underside of the Personality board

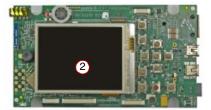


Figure 3.6 Connect Personality Board to Power Supply

- 1. Connect the regulated 5V power supply to the appropriate power adapter. Plug the 5V line into the J12 (5V POWER JACK) connector on the Personality board. See <u>Figure 3.6</u>. Turn the 5V power supply ON.
- The OS image pre-loaded in the 3-Stack should boot and the Windows CE 5.0 or Windows Embedded CE 6.0 operating system should appear at the Personality board's LCD display.

Build the Platform *Build a Demo Platform: Assemble Two Boards*

Using the Demo Image

This chapter explains how to use the touch panel and stylus to load the multimedia content to the 3-Stack board, using the provided demo image.

Multimedia Codecs Content

The Windows CE 5.0 and Windows Embedded CE 6.0 Demo Images contain a set of multimedia codecs that support various use cases. These codecs are optimized to run on the i.MX31 platform.

See the Demo Image Readme document, provided with the demo image, for a full list of the codecs provided.

These codecs are provided for demonstration purposes; therefore, they will only playback the content for 30 seconds.

For more information about the multimedia codecs, or to obtain evaluation copies, please contact a Freescale sales representative or distributor.

Touch Pad Calibration Tool

After you have assembled the 3-Stack board and powered it up, the Windows CE 5.0 or Windows Embedded CE 6.0 image that was loaded to the board will boot up. The first

image you will see is the touch pad calibration tool, which displays a cross in the center, as shown in the partial screen image in Figure 4.1.

Figure 4.1 Touch Pad Calibration Tool

To calibrate the Touch Panel, follow these steps:

1. Using the stylus pen, click on the cross.

The cross will move to the four corners of the screen. If the calibration error is too large, the program will reset and the process will have to be repeated. When the touch panel calibration is successful, the following message is displayed:

New calibration settings have been measured. Press the Enter key to accept the new settings. Press the Esc key to keep the old settings.

2. Tap with the stylus pen in any part of the screen.

The Windows CE desktop is displayed (see Figure 4.2.).



Figure 4.2 Windows CE Desktop

Downloading Multimedia to the 3-Stack Board

There are three ways to load multimedia content to the 3-Stack board using the Windows CE 5.0 or Windows Embedded CE 6.0 image provided:

- · Using Active Sync
- · Using an SD Card
- · Using a USB Card

Using Active Sync

Active Sync is a very useful tool to use with a Windows CE 5.0 or Windows Embedded CE 6.0 device. To obtain the Active Sync download and instructions, go to:

http://www.microsoft.com/windowsmobile/activesync/activesync45.mspx/

Once Active Sync is installed, you can set up communication between your host PC and the 3-Stack board

To establish a communication between the Host PC and the 3-Stack board, follow these steps:

- Make sure that the 3-Stack board is ON and running the Windows CE 5.0 or Windows Embedded CE 6.0 image.
- Make sure that Active Sync is running on your host PC (the Active Sync icon should appear gray on the Windows task bar).

Using the Demo Image

Downloading Multimedia to the 3-Stack Board

3. Use the A to mini AB USB cable provided in your i.MX31 MAX WPDK kit and connect the mini AB end to the J10 USB OTG connector on the Personality board, then connect the other end to the any available USB port on your Host PC.

Windows will recognize the 3-Stack board as a Windows CE 5.0 or Windows Embedded CE 6.0 Device and the Active Sync wizard will appear on the Host PC (Figure 4.3).

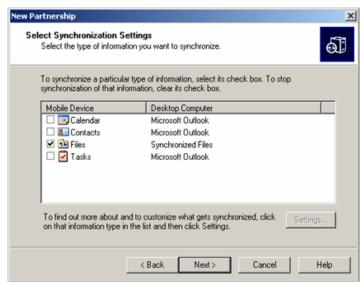


Figure 4.3 Setting up a Partnership

4. Select Yes, and then click Next.

The Select Synchronization Settings options are displayed (Figure 4.4).

Figure 4.4 Selecting Synchronization Settings



Active Sync establishes communications with the 3-Stack board, and the Active Sync screen displays the connection status (Figure 4.5).

Figure 4.5 Viewing the Connection Status



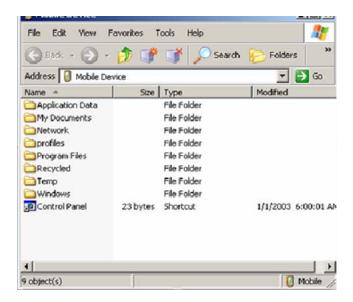
i.MX31 PDK 1.4 Quick Start Guide

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To browse the Mobile Device (3-Stack) folders, click on the Explore icon of the Active Sync window

A new Windows Explorer window for your Mobile Device opens on the Host PC (Figure 4-6).

Figure 4.6 Windows Explorer for Mobile Device



- To download a multimedia file, drag the file to the Mobile Device window.
 The Active Sync will transfer the file to the board, display a message indicating that the file will be converted.
- 7. Click OK.
- 8. The download begins.
- NOTE For more information about the multimedia files supported by the Windows CE 5.0 or Windows Embedded CE 6.0 image pre-loaded in the board, see the Demo Image Readme file included in the PDK documentation.

9. To access the files, double-click on the "My Device" icon in the Windows CE 5.0 or Windows Embedded CE 6.0 desktop (on the 3-Stack board).

A Windows Explorer window will open, displaying the content you downloaded with Active Sync (Figure 4-7).

Figure 4.7 Downloaded Content

Downloaded Corter



- 10. Plug the headphones to the J19 Audio/Video jack connector in the Personality board.
- 11. Double-click on your multimedia file.

The Media Player opens and plays the file.

Using an SD Card

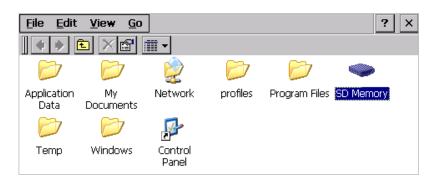
If you have an SD Card with pictures or other multimedia content, you can use the 3-Stack Board to view its content.

To use access the SD Card, follow these steps:

- Make sure the 3-Stack is powered and running the Windows CE 5.0 or Windows Embedded CE 6.0 demo image.
- 2. Insert the SD Card in the SD Card slot, which is located in the lower part of the personality board, just below the USB connectors.
- 3. Click on "My Device" icon located in the Windows CE 5.0 or Windows Embedded CE 6.0 desktop.

A Windows Explorer window opens, displaying the SD Memory icon (Figure 4-8).

Figure 4.8 Viewing the SD Memory Icon



4. To access the SD Card content, double click-on the SD Memory icon.

Using a USB Memory Stick

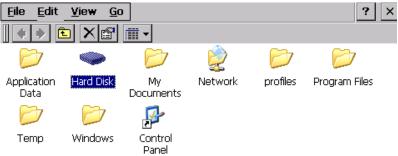
You must have a USB mini AB-to-A female connector, for connecting the USB memory stick to the 3-Stack board.

To use the USB memory stick with the 3-Stack board, follow these steps:

- Make sure the 3-Stack is powered and running the Windows CE 5.0 or Windows Embedded CE 6.0 demo image.
- Connect the adapter to J18 USB Host connector on the Personality board, and connect the USB memory stick to the adapter.
- Click on the "My Device" icon in the Windows CE 5.0 or Windows Embedded CE 6.0 desktop.

A Windows Explorer window opens, displaying the Hard Disk icon (Figure 4.9).

Figure 4.9 Viewing the Hard Disk Icon



4. Double-click the "Hard Disk" icon.

Running the Demo Applications

The Windows CE 5.0 or Windows Embedded CE 6.0 image pre-loaded in the 3-Stack board has two applications:

- The TV-Out application allows you to use a TV as a display
- The Rotate application to switch the display from portrait to landscape

Running the TV-Out Application

The TV Out application has two output formats: PAL and NTSC. You will need a special cable.

To use the TV-Out application, follow these steps:

- Plug the RCA Video/Audio cable jack to the J19 Video/Audio jack on the Personality board.
- 2. Connect the RCA end to the TV.

3. Before running the application, you must disable the power-saving features of the Windows CE 5.0 or Windows Embedded CE 6.0 image, because the TV Out signal will be dropped if the power-saving state starts. To disable the backlight savings, tap and hold the stylus for one or two seconds at the center of the Windows CE 5.0 or Windows Embedded CE 6.0 desktop.

The Properties menu option is displayed (Figure 4.10).

Figure 4.10 Properties Menu Option



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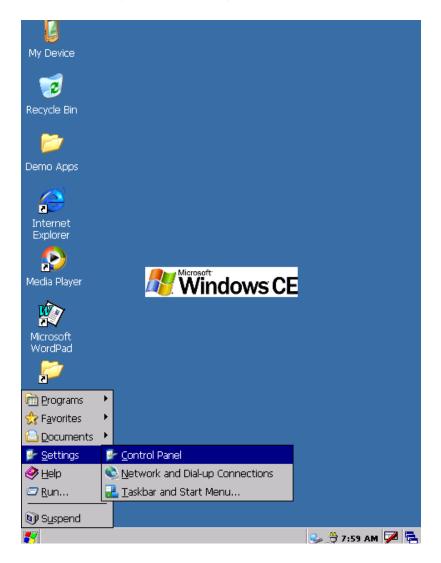
4. Select the Backlight tab, clear the two options on the tab, and then click **OK** at the top right corner of the window (Figure 4.11).

Figure 4.11 Selecting the Background Tab



5. The power settings on the Control Panel must be modified. To access the Control Panel window, click the Windows logo at the lower left corner and go to Settings Control Panel (Figure 4-12).

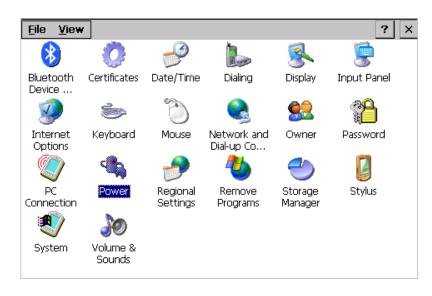
Figure 4.12 Selecting the Control Panel



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6. Double-click the Power icon (Figure 4.13).

Figure 4.13 Selecting the Power Settings Icon



7. Select the Schemes tab (Figure 4.14).

Figure 4.14 Selecting the Schemes Tab

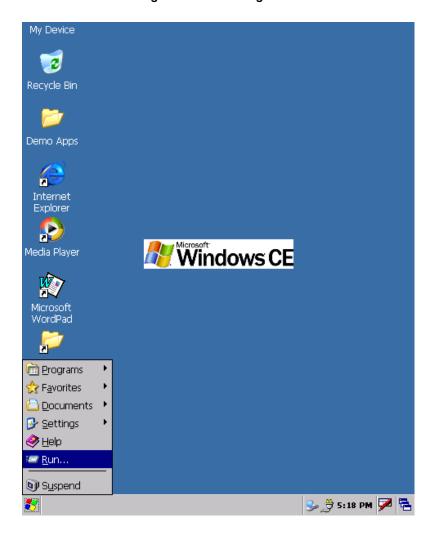


- 8. Change all the drop-down menu options to **Never**.
- 9. Click OK.

10. Now that the Power saving options are disabled, you may use the TV-Out program without a problem. To run the program, click on the Windows logo at the lower left corner of the display, and then click **Run** (Figure 4.15).

The Run field is displayed.

Figure 4.15 Selecting Run



Running the Demo Applications

11. Type "tvout.exe 0" for TVs using PAL format or "tvout.exe 1" for TVs using NTSC format, and then click **OK**. Figure 4.16 shows an example for a NTSC TV.

Once the program runs, the image should appear at the TV.

Figure 4.16 Example of an NTSC TV Usage



12. To navigate the desktop, use the keypad located below the display on the Personality board, or you can connect a USB mouse or keyboard to the Personality board using the J18 USB Host connector of the Personality board (a Mini AB to A female adaptor may be required for this option).

Running the Demo Applications

Running the Rotate Application

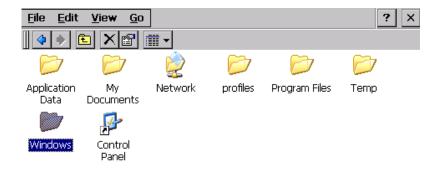
The Rotate application enables you to switch the display from portrait to landscape.

To use the Rotate application, follow these steps:

1. At the Windows CE 5.0 or Windows Embedded CE 6.0 desktop, double-click on "My Device" icon at the top left corner.

A Windows Explorer window opens.

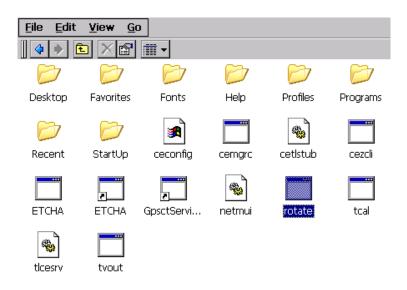
Figure 4.17 Opening the Windows Explorer Window



2. Locate the **Rotate** icon and double-click on it (Figure 4.18).

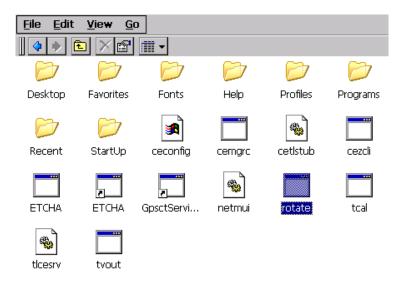
A Windows Explorer window opens.

Figure 4.18 Viewing the Icons in the Rotate Folder



Clicking on the Rotate program toggles the display. Double-click Rotate to switch to landscape (Figure 4.19).

Figure 4.19 Using the Rotate Application



4. To restore the portrait view, double-click the **Rotate** icon again.

Changing the Windows CE 5.0 or Windows Embedded CE 6.0 Demo Image Version

The PDK system provides two demo images: Windows CE 5.0 and Windows Embedded CE 6.0.

To obtain instructions for switching images and running the selected version of the Windows CE 5.0 or Windows Embedded CE 6.0 Demo Image on the PDK system, see your Windows CE 5.0 or Windows Embedded CE 6.0 package, Chapter 5, Preparing for Download and Debugging.

Ready to Begin Your Development?

If you are ready to develop new applications using the i.MX31 PDK, use the following documents to locate the information required for your development:

- i.MX31 PDK 1.4 Hardware User's Guide provides all of the hardware information for the 3-Stack board, including the connectors, switches, options, and pins.
- i.MX31 PDK 1.4 Release Notes for Windows CE 5.0 or Windows Embedded CE 6.0, provides the tools needed to use the PDK, including the driver availability and known errors.
- i.MX31 PDK 1.4 User's Guide for Windows CE 5.0 or Windows Embedded CE 6.0
 explains how to build and modify a Windows CE 5.0 or Windows Embedded CE 6.0
 image and deploy the image to the 3-Stack board.
- i.MX31 PDK 1.4 Reference Manual for Windows CE 5.0 or Windows Embedded CE 6.0 provides detailed information about the Windows BSP drivers, including functional information, dependencies, and building options for each driver.
- i.MX31 PDK 1.4 Hello World Application Note for Windows CE 5.0 or Windows Embedded CE 6.0 explains how to create a simple Hello World application using the Microsoft Platform Builder 5.0/6.0.

For additional information, see the support information in your i.MX31 PDK 1.4 package.